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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/701,295	11/03/2003	Nigel Benjamin	13227-002003 5269	
	7590 01/03/2007 INNER AND SULLIVAN	EXAMINER		
4875 PEARL EAST CIRCLE SUITE 200 BOULDER, CO 80301			PAK, JOHN D	
			ART UNIT	PAPER NUMBER
2002224		1616		
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SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS		01/03/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)				
Office Action Summany	10/701,295	BENJAMIN ET AL.				
Office Action Summary	Examiner	Art Unit				
	JOHN PAK	1616				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DATE of time may be available under the provisions of 37 CFR 1.11 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period versillure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	l. ely filed the mailing date of this communication. O (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on <u>11 O</u>	ctober 2006.					
_	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>21-27</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>21-27</u> is/are rejected.						
7) Claim(s) is/are objected to.	•					
•	8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)	_					
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
3) Notice of Information Disclosure Statement(s) (PTO/SB/08)						
Paper No(s)/Mail Date <u>2/21/2006</u> . 6) Other:						

Application/Control Number: 10/701,295

Art Unit: 1616

Claims 21-27 are pending in this application.

Before turning to examination of these new claims on the merits, a review of effective filing date is again necessary because of its relevance on which prior art reference may be applied against the claims.

Amended claims 21-27 recite or read on the following feature:

wherein said acidifying agent and said source of nitrite ions are disposed separately in respective pharmaceutically acceptable carriers for admixture at the intended environment of use and being effective to release NO or NO₂ at the environment of use and wherein said dosage form is in the form of a paint, a varnish, an ointment, a wax, a salve, a cream, or is impregnated in a film or a gauze.

Applicant's specification provides that the dosage forms can include tablet, paint, varnish, wax, multi-layered devices (pages 10 & 12). However, close review of related cases for which benefit of earlier filed application is claimed shows that only cream or ointment forms can have an effective filing date of the earliest claimed dates. In WO 95/22335 (publication of PCT/GB95/00338, filed on 2/17/1995), the following disclosure is found with respect to "disposed separately" feature (page 3):

The pharmaceutical acceptable carrier or diluent may be an inert cream or ointment. In a particularly preferred form of the invention the acidifying agent and the source of nitrate ions or precursor therefor are separately disposed in said cream or ointment for admixture to release nitrite ions at the environment of use.

See also claim 5 of WO 95/22335:

Application/Control Number: 10/701,295

Art Unit: 1616

5. A dosage form according to any preceding claim wherein the pharmaceutically acceptable carrier is disposed in an inert cream or ointment, and wherein said acidifying agent and said source of nitrite ions is separately disposed in a respective cream or ointment for admixture to release nitrate ions at the intended environment of use.

Additionally, WO 95/22335 fails to disclose ascorbyl palmitate, lactic acid, citric acid, formic acid, benzoic acid and tartaric acid, which are claimed in applicant's claims 22-24, 26 and 27. It is noted that 08/696,930 is a 371 of PCT/GB95/00338, which published as WO 95/22335, so that case provides no additional disclosure support.

Above discussion applies also to foreign priority applications with earlier filing dates than WO 95/22335. Relatedly, see the Examiner's comments regarding GB 9804469.6 in the Office action of 9/12/2005.

The Examiner therefore concludes that **at best** the earliest effective filing date for the currently claimed subject matter **may be 3/1/1999**, the filing date of PCT/GB99/00605. This is because none of the earlier filed applications disclose (i) the "disposed separately" feature with respect to all of the presently recited dosage forms and (ii) all the acids now claimed.

Without needing to determine at this time whether the effective filing date of the instant claims is 3/1/1999 (filing date of PCT/GB99/00605) or 6/11/1999 (filing date of parent case), further examination on the merits can continue now because the difference in those dates will not be material hereinbelow.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 21-27 are rejected under 35 U.S.C. 102(e) as being anticipated by Seitz et al. (US 6,103,275).

Seitz et al. explicitly disclose a 1.5 wt% sodium nitrite gel and a 3.3 wt% ascorbic acid gel (column 9, lines 5-13). Two separate gels are disclosed (id.). The gels are to be combined to generate NO for topical treatments (see e.g., claim 12).

The claims are anticipated because every element of applicant's claims are expressly taught or necessarily encompassed. Applicant's feature of "in an amount sufficient to establish a pH at an environment of use below 4" is noted with respect to the acid component, but it is also noted that 1-10 wt% ascorbic acid meets that feature (see applicant's claim 27, line 2). Hence, because Seitz et al. disclose 3.3 wt% ascorbic acid in a gel, this amount is sufficient to meet applicant's claim feature. Also, because Seitz's "dosage form" contains the same exact components as applicant's "dosage form," the same properties must necessarily be present. Hence, Seitz's disclosure meets applicant's feature, "for topical treatment of a bacterial, viral or fungal infection."

For these reasons, all claims are found to be anticipated.

Applicant's remarks relative hereto have been given due consideration but they were deemed unpersuasive. Applicant is reminded that a claim cannot be given some sort of partial credit for claiming several alternative embodiments with several effective filling dates. Each claim gets only one effective filling date and the prior art is applied thereafter. See MPEP 706.02. The ground of rejection is thereby maintained.

Previously applied ground of rejection of claims 25 and 27 under 35 USC 112, second paragraph, is hereby withdrawn in view of applicant's amendments of 10/11/2006.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

Art Unit: 1616

the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to JOHN PAK whose telephone number is **(571)272-0620**. The Examiner can normally be reached on Monday to Friday from 8 AM to 4:30 PM.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's SPE, Johann Richter, can be reached on (571)272-0646.

The fax phone number for the organization where this application or proceeding is assigned is (571)273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571)272-1600.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

Application/Control Number: 10/701,295

Art Unit: 1616

Page 7

you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Primary Examiner
Technology Center 1600